

Seat No.	
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SL-490

Total No. of Pages : 2

B.E. (Computer Science and Engineering) (Semester-VIII)
Examination, May - 2017
INTERNET OF THINGS
Internet of things (Elective-II)
Sub. Code : 67827

Day and Date : Wednesday, 3-05-2017

Time : 2.00 p.m. to 5.00 p.m.

Total Marks : 100

- Instructions :
- 1) Questions 4 and 8 are compulsory.
 - 2) Solve any 2 Questions from 1 to 3 and any 2 questions from 5 to 7.
 - 3) Figures to the right indicate full marks.

Q1) a) Explain the concept of IoT and give its history. [6]

b) Draw Object Classification diagram and explain different characteristics of an Object. [10]

Q2) a) List and explain Structural Aspects of IoT. [8]

b) Draw a neat diagram of RFID reader and explain its operation. [8]

Q3) a) List and explain components of RFID System. [8]

b) Explain Preamble Sampling protocols and Frame-based Scheduled Protocols. [8]

Q4) Write short notes on any 3 of the following. [3×6=18]

- a) Device Power and Sensor Technology
- b) Principle of RFID
- c) Identification of IoT Objects and Services.
- d) Wireless Node or Mote in WSN.

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- Q5) a) Draw Zigbee Protocol Stack and explain Zigbee/IEEE 802.15.4 for IoT. [8]
b) Explain in detail Dedicated Short Range Communications (DSRC) and related protocols. [8]
- Q6) a) Explain Substantive principles for IoT Governance. [8]
b) Explain IoT Infrastructure Governance. [8]
- Q7) a) Draw a neat diagram of Advanced Metering Infrastructure and explain its operation. [8]
b) Discuss in detail Home automation in IoT/M2M context. [8]
- Q8) Write short notes on any 3 of the following. [3×6=18]
a) Bluetooth
b) Bodies subject to Governing Principles
c) NFC
d) Smart Cards in IoT environment.

